Docket No.: 08223/1200339-US1 (PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of: Reza P. Rassool et al.

Patent No.: 7,043,473

Issued: May 9, 2006

For: MEDIA TRACKING SYSTEM AND METHOD

REQUEST FOR CERTIFICATE OF CORRECTION PURSUANT TO 37 CFR 1.323 AND PATENT OFFICE MISTAKE (37 CFR 1.322)

Attention: Certificate of Correction Branch Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Upon reviewing the above-identified patent, Patentee noted several patent office errors which should be corrected.

The following errors were not in the application as filed by applicant:

In the Application:

First Page Col. 2 (Foreign Patent Documents), Line 1, After "658054" delete "BA" and insert -- B1 --.

First Page Col. 2 (Attorney, Agent or Firm), Line 2, After "Darby" insert -- P.C. --.

Page 2 Col. 1 (U.S. Patent Documents), Line 40, After "6,314,409" delete "B1" and

insert -- B2 --.

Page 2 Col. 1 (U.S. Patent Documents), Line 48 After "6,409,080" delete "B1" and insert -- B2 --.

Page 2 Col. 1 (U.S. Patent Documents), Line 58 Delete "1/2003" and insert -- 9/2003 --.

Page 2 Col. 2 (U.S. Patent Documents), Line 1, After "6,634,028" delete "B1" and

insert -- B2 --.

Page 2 Col. 2 (U.S. Patent Documents), Line 6, After "6,654,423" delete "B1" and insert -- B2 --.

Page 2 Col. 2 (Other Publications), Line 1, Delete ".htm," and insert -- .html, --.

Page 2 Col. 2 (Other Publications), Line 13, Delete "chapter" and insert -- chapters --.

Column 12, Line 67, Delete " $p_{\{co\}}$ ", and insert - - $p_{(co)}$ ", - -.

Enclosed please find marked up copies of the List of References, Copy of Issue Fee

Payment, and a copy of page 16 of the Specification.

The following errors were found in the application as filed by applicant. The errors now sought to be corrected are inadvertent typographical errors, the correction of which does not involve new matter or require reexamination.

Page 2 Col. 2 (Other Publications), Delete "Immage" and insert -- Image --.

Column 2, Line 11, Delete "Nework" and insert -- Network --.

Column 3, Line 52, Delete "the" before "those".

Column 12, Line 66, Delete "center of gravity" and insert -- center-of-gravity--.

Column 13, Line 16, Delete "center of gravity" and insert -- center-of-gravity--.

Column 18, Line 3, Delete "center of gravity" and insert -- center-of-gravity--.

Column 38, Line 59, In Claim 24, after "file" insert -- , --.

Transmitted herewith is a proposed Certificate of Correction effecting such amendment. Patentee respectfully solicits the granting of the requested Certificate of Correction.

The Commissioner is authorized to charge any deficiency of up to \$300.00 or credit any excess in this fee to Deposit Account No. 04-0100. Payment of \$100.00 is enclosed herewith.

Dated: June 30, 2006

Respectfully submitted,

Flynn Barrison

Registration No.: 53,970 DARBY & DARBY P.C. P.O. Box 5257 New York, New York 10150-5257 (212) 527-7700 (212) 527-7701 (Fax)

Attorneys/Agents For Applicant

PTO/SB/44 (04.05)
Approved for use through 04/30/2007. OMB 0651-0033
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
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(Also Ferm PTO-1056)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page _1_ of _2

PATENT NO.

7,043,473

APPLICATION NO. :

09/988,824

ISSUE DATE

May 9, 2006

INVENTOR(S)

Reza P. Rassool et al.

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the Application:

:

First Page Col. 2 (Foreign Patent Documents), Line 1, After "658054" delete "BA" and insert -- B1 --.

First Page Col. 2 (Attorney, Agent or Firm), Line 2, After "Darby" insert -- P.C. --.

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insert -- B2 --.

MAILING ADDRESS OF SENDER: Flynn Barrison DARBY & DARBY P.C. P.O. Box 5257 New York, New York 10150-5257

Page 2 Col. 2 (U.S. Patent Documents), Line 6, After "6,654,423" delete "B1" and

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

of

	Complete If Known	
Application Number	09/988,824	
Filing Oats	November 20, 2001	
First Named Inventor	Reza Rassool	
Art Unit	2171	
Examiner Name	B. D. Goddard	
Attorney Docket Number	08223/1200339-US1	

00	47	US-6,640,304-B1	10-28-2003	Ginter et al.	
170	48	US-6.668,325-B1	12-23-2003	Colibera et al.	
^	49	US-6,459,427-B1	10-01-2002	Mao, et al.	
7	50	US-6,314,572-B1	11-06-2001	LaRocca, et al.	
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Examiner	Cite	Foreign Patent Document	Publication	Name of Patentse or	Pages, Columns, Lines,	Г
(nitials*	No.	Country Code*-Number*-Kind Code* (# known)	Date MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
(Xc	84	WO-99/30499-A1	06-17-1999	Thomson Consumer Electronics, Inc.		Г
	85	EP-714204-B1	05-29-1996	LG Electronics, Inc.		
	86	WO-96/32702-A1	10-17-1996	Smart TV Co.		Г
	87	WO-99/54453-A1	10-28-1999	Henriksen, et al.		
47	88	WO-96/06504-A1_	02-29-1996	Chaney, et al.		
0	89	EP-658054-B1	06-14-1995	News Datacom Ltd.		\Box
TO	90	WO-01/35571-A1	05-17-2001	Widevine Technologies, Inc.		

Examiner Signature Signature Considered 1/3/05

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FC:2501	700.00 OP			March to	2006	(Signature) (Date)
APPLICATION NO.	FILING DATE		IRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/988,824	11/20/2001		Reza P. Rassoo		00211128 8223/1200339-	8821
TITLE OF INVENTION: N	IEDIA TRACKING SYSTER	M AND METHOD				
APPLN. TYPE	SMALL ENTITY	ISSUE FE	E P	UBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
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	an assignee is identified be 37 CFR 3.11. Completion of				nee is identified below, the	document has been filed for
(A) NAME OF ASSIGN Widevine	EE Technologies,		=	Y and STATE OR CO Washington	UNTRY)	
Please check the appropriate	assignee category or categor	rics (will not be pri	nted on the patent):	☐ Individual 🖼 C	orporation or other private g	group entity Governmen
4a. The following fee(s) are	enclosed:		Payment of Fee(s):			
☑ Issue Fee ☐ Publication Fee (No s	mall entity discount permitte	d)	Payment by cred	mount of the fee(s) is en it card. Form PTO-203	R is attached.	
Advance Order - # of		>	The Director is Deposit Account No	hereby authorized by comber 04-0100	harge ROCKWING KOCK O	or credit any overpayment, t copy of this form).
a. Applicant claims S	(from status indicated above MALL ENTITY status. See 3) 37 CFR 1.27.	☐ b. Applicant is n	o longer claiming SMA	LL ENTITY status, See 37	CFR 1.27(g)(2).
The Director of the USPTO NOTE: The Issue Fee and P interest as shown by the rec	is requested to apply the Issu ublication Fec (if required) w ords of the United States Pate	c Fee and Publicat rill not be accepted nt and Trademark	on Fee (if any) or to from anyone other to Office.	re-apply any previous han the applicant; a reg	ly paid issue fee to the appli istered attorney or agent; or	cation identified above. the assignee or other party in
Authorized Signature	Phigan				rch 10, 2006	
Typed or printed name _	Jamie L. Wieg	and		Registration	No. 52, 361	
This collection of information an application. Confidential submitting the completed a this form and/or suggestions Box 1450, Alexandria, Virg Alexandria, Virg Alexandria, Virginia 22317-	on is required by 37 CFR 1.3 ity is governed by 35 U.S.C. polication form to the USPTO for reducing this burden, shinia 22313-1450. DO NOT \$1450, tion Act of 1995, no persons	11. The information 122 and 37 CFR 1 D. Time will vary ould be sent to the SEND FEES OR C	is required to obtain 14. This collection depending upon the Chief Information (OMPLETED FORM) and to a collection of	n or retain a benefit by is estimated to take 12 individual case. Any co officer, U.S. Patent and IS TO THIS ADDRES	the public which is to file (a minutes to complete, includ omments on the amount of t Trademark Office, U.S. De S. SEND TO: Commissione	nd by the USPTO to process ling gathering, preparing, and time you require to complet partment of Commerce, P.O. or for Patents, P.O. Box 1450 ol number.
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERC

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	Filing Cate	November 20, 2001
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	Art Unit	2171
	Examiner Name	B. D. Goddard
_	Attorney Docket Number	08223/1200339-US1

			U.S. PA	TENT DOCUMENTS		
Examiner Initials*	Cite No.	Document Number Number-Kind Code ² (# known)	Publication Date MM-DD-YYYY	Name of Paten Applicant of Cited I		Pages, Columns, Lines, When Relevant Passages or Relevar Figures Appear
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\neg	10	US-5,933,498-B1	08-03-1999	Schneck et al		
_	11	US-5.949.876-B1	09-07-1999	Ginter et al.		
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	14	US-6,049,671-B1	04-11-2000	Slivka et al.	· · · · · · · · · · · · · · · · · · ·	
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	16	US-6,157,721-B1	12-05-2000	Shear et al.		
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+-	41	US-5,910,987-B1	06-08-1999	Ginter et al.		
_	42	US-5,922,208-B1	07-13-1999	Demmers		ļ
	43	US-6,138,119-B1	10-24-2000	Hall et al.		ļ
. 10 × - 1	44	US-6,240,185-B1	05-29-2001	Van Wie et al.		
17/~	45	US-6,363,488-B1	03-26-2002	Ginter et al.		
<u> </u>	46	US-6,449,367-B1	09-10-2002	Van Wie et al.		<u> </u>
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Complete if Known Substitute for form 1449A/B/PTO Application Number 09/988,824 INFORMATION DISCLOSURE STATEMENT BY APPLICANT November 20, 2001 Filing Oate First Named Invento Reza Rassool Art Unit 2171 (Use as many shoots as necessary) Examiner Name B. D. Goddard of Attorney Docket Number Sheet 08223/1200339-US1

~ ~	47	US-6,640,304-B1	10-28-2003	Ginter et al.
PG	48	US-6.668.325-B1		Collberg et al.
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\Box	80	US-5,590,200-B1		Nachman et al.
	81	US-5,375,168-B1	12-20-1994	
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علاليا	83	US-5,067,035-B1	11-19-1991	Kurleiski et al.

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F	Cite	Foreign Patent Document	Publication	Name of Patentee or	Pages, Columns, Lines,	Г
initials*	No.1	Country Code*-Number*-Kind Code* (# known)	MM-OD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	۲
1X0	84	WO-99/30499-A1	06-17-1999	Thomson Consumer Electronics, Inc.		Γ
7	85	EP-714204-B1	05-29-1996	LG Electronics, Inc.		
	86	WO-96/32702-A1	10-17-1996	Smart TV Co.		Г
	87	WO-99/54453-A1	10-28-1999	Henriksen, et al.		г
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Examiner Bran Galacol Date Considered 1/3/05

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S	TATEMENT E	3Y /	APPLICANT	First Named Inventor	Reza Rassool	
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Sheet	3	of	3	Altorney Docket Number	08223/1200339-US1	

 91	WO-02/21761-A2	03-14-2002 Widevine Technologies, Inc.	\top

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		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), litle of the article (when appropriate), title of the Item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
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^{*}EXAMINER: tritial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and no considered. Include copy of this form with next communication to applicant.

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Examiner Signature	Goldad	Date Considered	3/	05

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single valued function of one or more variables that can be measured from the associated pixel. For example, if the image is a grayscale image, the sampled level of a particular grid point can be taken to be the gray level of the associated pixel. If the image is in color, the sampled value could be the level of the red, green or blue components of the underlying pixel, or could be a combination of one or more color components such as the color (i.e., hue), saturation (i.e., intensity) or brightness of the pixel. Other measurable pixel values include temperature, emissivity, density or a combination thereof. The levels of all grid points (and of the associated neighborhood points for each grid point) may be measured and stored prior to each iteration of the warp grid algorithm.

[0063] The grid 16 is spatially adapted to the image 12 with each iteration of the warp grid algorithm. Each given point 18 of the grid 16 may be displaced in the u, v coordinate system from its current position by an offset vector determined from the sampled values and positions of the grid points within the connection pattern of the given grid point 18. Each point 18 in the warp grid 16 is displaced with each iteration in accordance with a basic offset calculation described below.

[0064] In this exemplary procedure for calculating the offset vector to be applied to a given grid point in the warp algorithm spatial adaptation step, the offset vector is calculated from the positions and sampled values of all the grid points in the connection pattern surrounding the given current grid point. Preferably, the offset vector for each current grid point is calculated as a scaling of the position of the center-of-gravity of all of the points in the connection pattern of the given current grid point relative to the position of each current point. In this center-of-gravity calculation, the individual connection pattern grid points are, in effect, weighted by their level values obtained from the associated (i.e., underlying) pixels.

[0065] A mathematical description of this center-of-gravity calculation will now be provided. Mathematically, if p_0 denotes the current position value of a given point in a warp grid measured in the u, v coordinate system and $\{C_0\}$ denotes a set of C points which constitute the connection pattern of p_0 , including p_0 itself, then the center of gravity of the connection pattern, $p_{\{co\}}^{CG}$, is given by:

$$p\{C_o\}^{CG} = \sum_{\substack{p \in (C_o) \\ p \in (C_o)}} [L(p) \times p],$$